

N^o 788



A.D. 1895

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Complete Specification Left, 14th Oct., 1895—Accepted, 7th Dec., 1895

PROVISIONAL SPECIFICATION.

Improved Compound Forming an Antiseptic, Disinfectant, and Deodorant.

I, SAMUEL ARCHIBALD VASEY, F.I.C., F.C.S., of Lower Park, Loughton, Essex, Chemist, do hereby declare the nature of this invention to be as follows:—

My invention relates to the production of a disinfectant, deodorant, and antiseptic, by the admixture of chlorinated lime with sodium bicarbonate together with a volatile (or slightly volatile) liquid which has no solvent or chemical action on any of the other constituents of the mixture, as for instance, oil of eucalyptus.

The bicarbonate of soda is first treated with oil of eucalyptus in the proportion of twelve fluid ounces of the oil to one hundredweight of bicarbonate. The bicarbonate is kept constantly stirred whilst the oil is sprayed over it.

Bicarbonate of soda, treated with oil in the manner just described is then thoroughly incorporated by mechanical means with chlorinated lime in the proportion of fifty seven parts by weight of bicarbonate to forty three parts of chlorinated lime.

In place of a bicarbonate I may use a mixture in chemical proportions of normal sodium or potassium carbonate with a dry acid, such as tartaric acid, or an acid salt, such as cream of tartar or aluminium sulphate.

If I employ other oils instead of oil of eucalyptus, I use the same quantity.

A suitable colour may be added to the finished product.

The use of this compound would be especially valuable in the treatment of excreta from infectious diseases and in the disinfection of bed linen and other appliances in the sick room. Other valuable applications are for the flushing, cleansing and deodorising of sewers; for the disinfecting of cattle pens, trucks, and stables; for dipping sheep, and for general use in mortuaries and barracks.

Dated this 12th day of January 1895.

S. ARCHD. VASEY.

COMPLETE SPECIFICATION.

Improved Compound Forming an Antiseptic, Disinfectant, and Deodorant.

I, SAMUEL ARCHIBALD VASEY, F.I.C., F.C.S., of Kingsthorpe, Lower Park, Loughton, Essex, Chemist, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

My invention relates to the production of a disinfectant, deodorant, and antiseptic, by the admixture of chlorinated lime, otherwise known as bleaching powder, with sodium bicarbonate together with a volatile (or slightly volatile) liquid, which has no solvent or chemical action on any of the other constituents of the mixture, as for instance oil of eucalyptus.

[Price 8d.]

Vasey's Improved Compound Forming an Antiseptic, Disinfectant, and Deodorant.

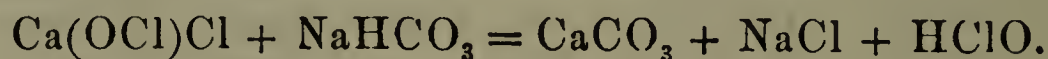
The object of the oil of eucalyptus or the like is to prevent the spontaneous decomposition of the powder on keeping.

The bicarbonate of soda is first treated with oil of eucalyptus in suitable proportion. The proportions may be varied according to circumstances, but I prefer to use one pint of the oil to one hundredweight of bicarbonate. The bicarbonate is kept constantly stirred whilst the oil is distributed over it by means of a spray or other suitable contrivance. 5

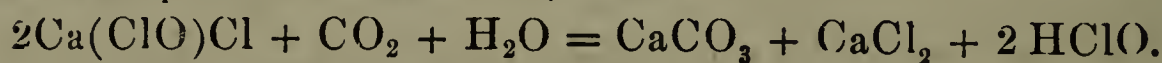
Bicarbonate of soda, treated with the oil in the manner just described, is then thoroughly incorporated by mechanical means with chlorinated lime in the proportion of fifty seven parts by weight of bicarbonate to forty three parts of chlorinated lime but these proportions may be varied. 10

In place of a bicarbonate I may use a mixture in chemical proportions of normal sodium carbonate with a dry acid, such as tartaric acid, or an acid salt, such as cream of tartar, or sulphate of alumina, or other chemical salt, which, by its action on normal carbonate of soda will generate carbonic acid. 15

The object of this invention is the production of a powder, which, on being mixed with water, shall, by the action of carbonic acid on chlorinated lime, liberate hypochlorous acid, according to the equation :



In the case of using a mixture of an acid or an acid salt with normal carbonate the reaction may be represented simply as the action of carbonic acid in the presence of water upon chlorinated lime, thus :— 20



In every case I depend upon the action of carbonic acid on the chlorinated lime to liberate hypochlorous acid. 25

The addition of the volatile oil is necessary to ensure the permanency or stability of the compound whilst in the powdered state.

The hypochlorous acid liberated from this mixture in solution in water is a most powerful germicide, disinfectant and deodorant. It may be used effectively in the treatment of excreta from infectious diseases and in the disinfection of bed linen and other appliances in the sick room. 30

Other valuable applications are for the flushing, cleansing and deodorising of sewers and urinals ; for the disinfecting and scouring of cattle pens, trucks and stables ; for dipping sheep, and for general use in mortuaries and barracks.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is :— 35

1. A powder consisting of a mixture of chlorinated lime with bodies which when wetted supplies carbonic acid.

2. The process of manufacture consisting in first incorporating the oil of eucalyptus or other liquid with the bicarbonate of soda or the like and then mixing with the chlorinated lime. 40

3. The improved compound substantially as described.

Dated this 14th day of October 1895.

S. ARCHD. VASEY. 45



